APPLICATION FOR PRIVATE SEWAGE DISPOSAL SYSTEM Dickinson County Board of Health

	Date		
Name of Owner		Phone:	
Address of Owner			
Site Address			
Lot Description/Legal Description	n QtrSection_	N. RangeV	
Total Number of Bedrooms			
Name of Contractor		Phone:	
Type of System Planned		Width of Trench (Ft.)	
PERCOLATION REPORT-Attac	ched the Percolation Test	Procedure-Optional	
DateMinutes Per	Inch	By Whom	
Soil Type & Soil Information(Done by County Office)			
Attach a site plan of the site show	ing the planned area of the	he sewage disposal system.	
to Chapter 69 Private Sewage Dis	posal Systems, Iowa Adr county office will be con	perty that all construction will conforministrative Code. Installation will nontacted at (712) 336-2770 48 hours in	
Fee of \$100.00 attached hereto, pa	ayable to Dickinson Cour	nty Treasurer.	
Owner Signature		Date	
Construction Completed		Sanitarian	
An as-installed drawing of the syscompletion of the project. Photos		pe provided to the County upon final not required.	
Minimum Requirements:			
(Completed by County Office)		•	
		Distribution Box	
-		Drainfield Type & Feet	
		Width of Trench	

Appendix B

Percolation Test Procedure

- 1. At least three test holes distributed evenly over the proposed lateral field are required.
- 2. Percolation test holes shall be 4 to 12 inches in diameter and to the same depth as the proposed absorption trenches (not to exceed 36 inches in depth).
- 3. Sides and bottoms of the test holes shall be scratched or roughened to provide a natural surface. All loose material shall be removed from each hole.
- 4. The bottoms of the test holes shall be covered with approximately 2 inches of rock to protect the bottom from scouring action when the water is added.
- 5. The hole shall be filled with at least 12 inches of clean water, and this depth shall be maintained for at least 4 hours and preferably overnight if clay soils are present. It is important that the soil be allowed to soak for a sufficiently long period of time to allow the soil to swell if accurate results are to be obtained. Failure to perform the presoak when required will invalidate the percolation test results.
- 6. In sandy soils with little or no clay, soaking is not necessary. If, after the hole has been filled twice with 12 inches of water, the water seeps completely away in less than 10 minutes, the test can proceed immediately.
- 7. Except for sandy soils, percolation rate measurements should be made at least 4 hours but no more than 24 hours after the soaking period began. Any soil that sloughed into the hole during the soaking period is removed, and the water level is adjusted to 6 inches above the gravel (or 8 inches above the bottom of the hole). At no time during the test is the water level allowed to rise more than 6 inches above the gravel.
- 8. Immediately after adjustment, the water level is measured from a fixed reference point to the nearest ½ inch at 30-minute intervals. The test is continued until two successive water level drops do not vary by more than ½ inch. At least three measurements are made.
- 9. After each measurement, the water level is readjusted to the 6-inch level. The last water level drop is used to calculate the percolation rate.
- 10. In sandy soils or soils in which the first 6 inches of water added after the soaking period seep away in less than 30 minutes, water level measurements are made at 10-minute intervals for a 1-hour period. The last water level drop is used to calculate the percolation rate.
- 11. The percolation rate is calculated for each test hole by dividing the time interval used between measurements by the magnitude of the last water level drop. This calculation results in a percolation rate in terms of minutes per inch. To determine the percolation rate for the area, the rates obtained from each hole are averaged. (If tests in the area vary by more than 20 minutes per inch, variations in soil type are indicated. Under these circumstances, percolation rates should not be averaged.) EXAMPLE: If the last measured drop in water level after 30 minutes is \(\frac{5}{8} \) inch, the percolation rate = (30 minutes)/(\frac{5}{8} \) inch) = 48 minutes/inch.

69.3(2) Minimum distances. All private sewage disposal systems shall be located in accordance with the minimum distances shown in Table I.

Table I

Minimum Distance in Feet From	Closed Portion	Open Portion
	of Treatment System (1)	of Treatment System (2)
Private water supply well	50	100
Public water supply well	200	200
Groundwater heat pump borehole	50	100
Lake or reservoir	50	100
Stream or pond	25	25
Edge of drainage ditch	10	10
Dwelling or other structure	10	10
Property lines (unless a mutual easement is signed and recorded)	10	10
Other type of subsurface treatment system	5	10
Water lines continually under pressure	10	10
Suction water lines	50	100
Foundation drains or subsurface tiles	10	10

⁽¹⁾ Includes septic tanks, aerobic treatment units, fully contained media filters and impervious vault toilets

⁽²⁾ Includes subsurface absorption systems, mound systems, intermittent sand filters, constructed wetlands, open bottom media filters and waste stabilization ponds.